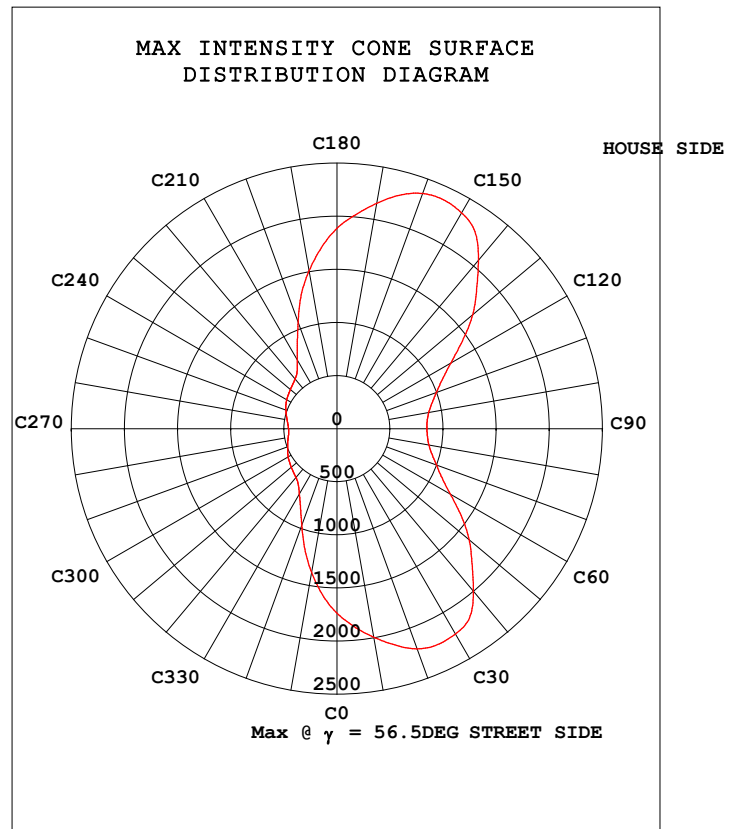
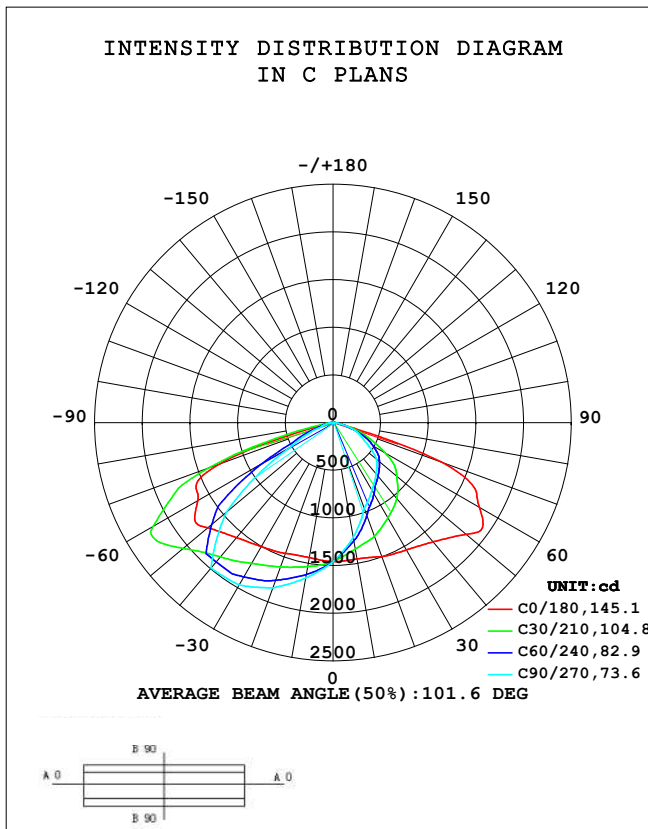


## STREETLIGHT PHOTOMETRIC TEST REPORT

|   |                       |                  |
|---|-----------------------|------------------|
| Test:U:220.8V I:0.1708A P:36.00W PF:0.9545 Lamp Flux:5406.94x1 lm |                       |                  |
| NAME: OPCITYIII-35W-4070-6C1T2S-70                                | TYPE:LED              | WEIGHT:          |
| SPEC.:  | DIM.: 0.44X0.195X0.04 | SERIAL No.:1     |
| MFR.: LUXSUN  | SUR.:0.16X0.12        | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 150.21 lm/W |          |                        |         |
|-------------------|---------|-----------------------------------|----------|------------------------|---------|
| MODEL             | LED     | Imax (cd)                         | 2378     | $\eta$ street_up (%)   | 0.0     |
| NOMINAL POWER (W) | 35      | LOR (%)                           | 100.0    | $\eta$ street_down (%) | 50.4    |
| RATED VOLTAGE (V) | 220     | TOTAL FLUX (lm)                   | 5407     | $\eta$ house_up (%)    | 0.0     |
| NOMINAL FLUX (lm) | 5406.94 | MAXIMUM @ (C, $\gamma$ )          | 155,56.5 | $\eta$ house_down (%)  | 49.6    |
| LAMPS INSIDE      | 1       | $\eta$ up (%)                     | 0.0      | 76 FLASHAREA (m2)      | 0.00100 |
| TEST VOLTAGE (V)  | 220     | $\eta$ down (%)                   | 100.0    | SLI                    | 17.016  |



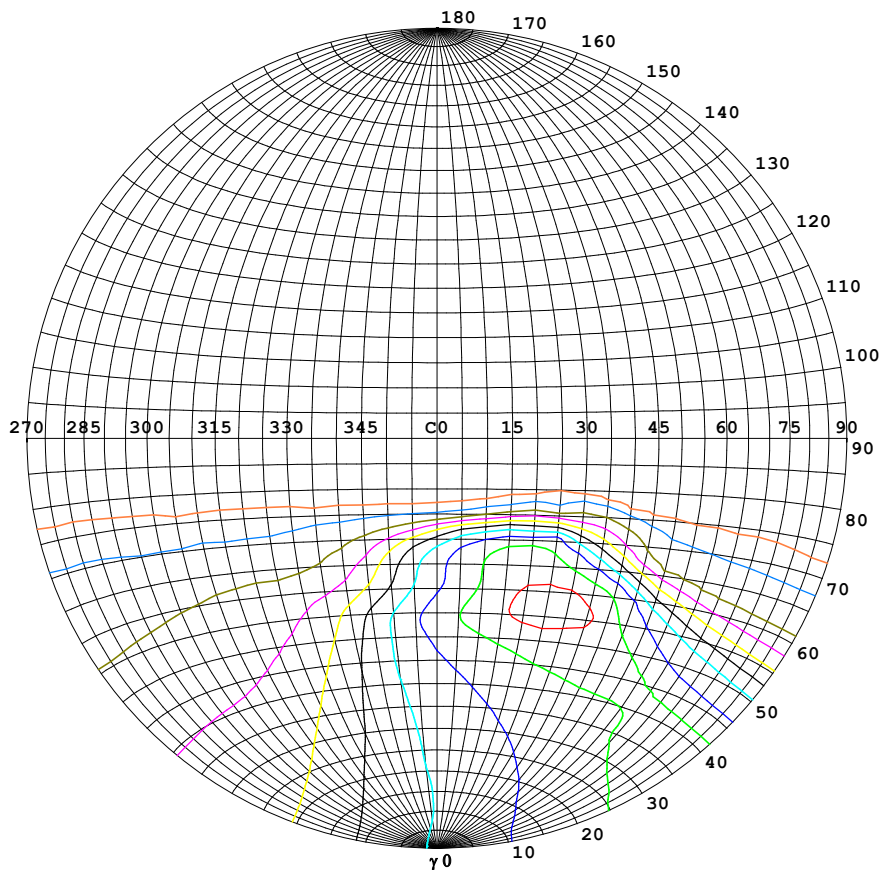
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-08-24

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 7.370m [K=1.0000]  
Remarks:

Note: SLI: Specific Luminaire Index

## STREETLIGHT ISOCANDELA DIAGRAM

|   |                       |                  |
|---|-----------------------|------------------|
| Test:U:220.8V I:0.1708A P:36.00W PF:0.9545 Lamp Flux:5406.94x1 lm |                       |                  |
| NAME: OPCITYIII-35W-4070-6C1T2S-70                                | TYPE:LED              | WEIGHT:          |
| SPEC.:  | DIM.: 0.44X0.195X0.04 | SERIAL No.:1     |
| MFR.: LUXSUN  | SUR.:0.16X0.12        | Shielding Angle: |



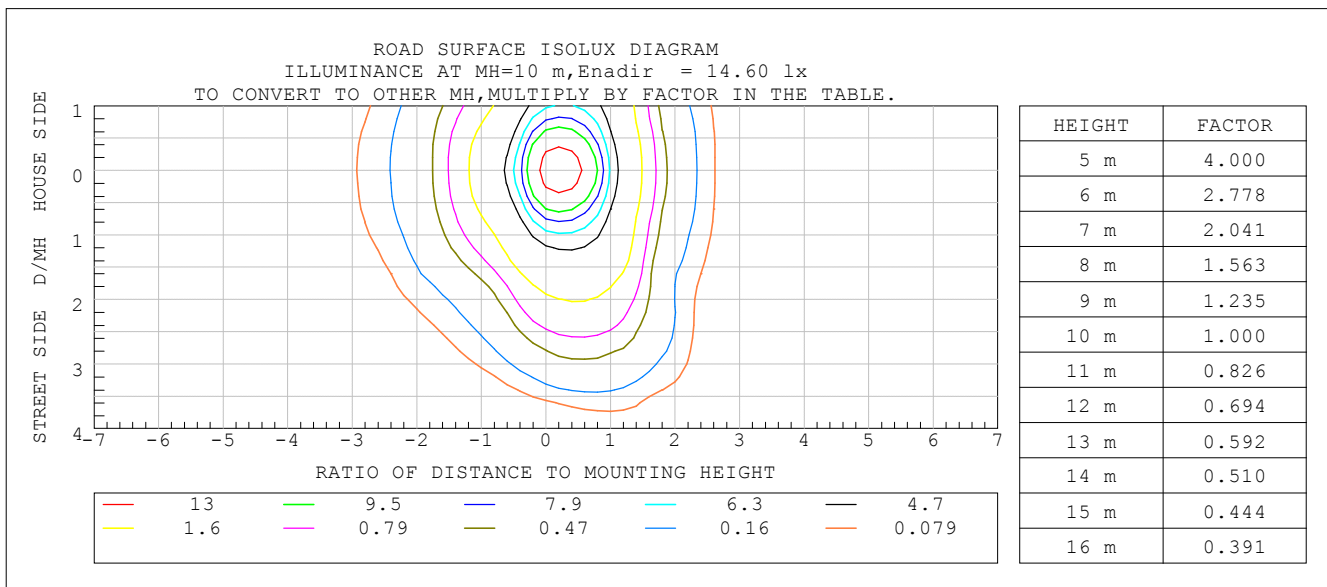
## Classification:

IES:Type IV - Short  
CIE:Broad - Short  
IES:Cut-off  
CIE:Full cut-off  
Max.At80:22.24cd/klm  
Max.At90:3.818cd/klm  
Max.80-90:22.24cd/klm

| ISOCANDELA DIAGRAM     |      |
|------------------------|------|
| UNIT                   | cd   |
| I <sub>max</sub> =100% | 2378 |
| 90%                    | 2140 |
| 80%                    | 1902 |
| 70%                    | 1664 |
| 60%                    | 1427 |
| 50%                    | 1189 |
| 40%                    | 951  |
| 30%                    | 713  |
| 20%                    | 476  |
| 10%                    | 238  |
| 5%                     | 119  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-08-24

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-08-24

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 7.370m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

|   |                       |                  |
|---|-----------------------|------------------|
| Test:U:220.8V I:0.1708A P:36.00W PF:0.9545 Lamp Flux:5406.94x1 lm |                       |                  |
| NAME: OPCITYIII-35W-4070-6C1T2S-70                                | TYPE:LED              | WEIGHT:          |
| SPEC.:  | DIM.: 0.44X0.195X0.04 | SERIAL No.:1     |
| MFR.: LUXSUN  | SUR.:0.16X0.12        | Shielding Angle: |

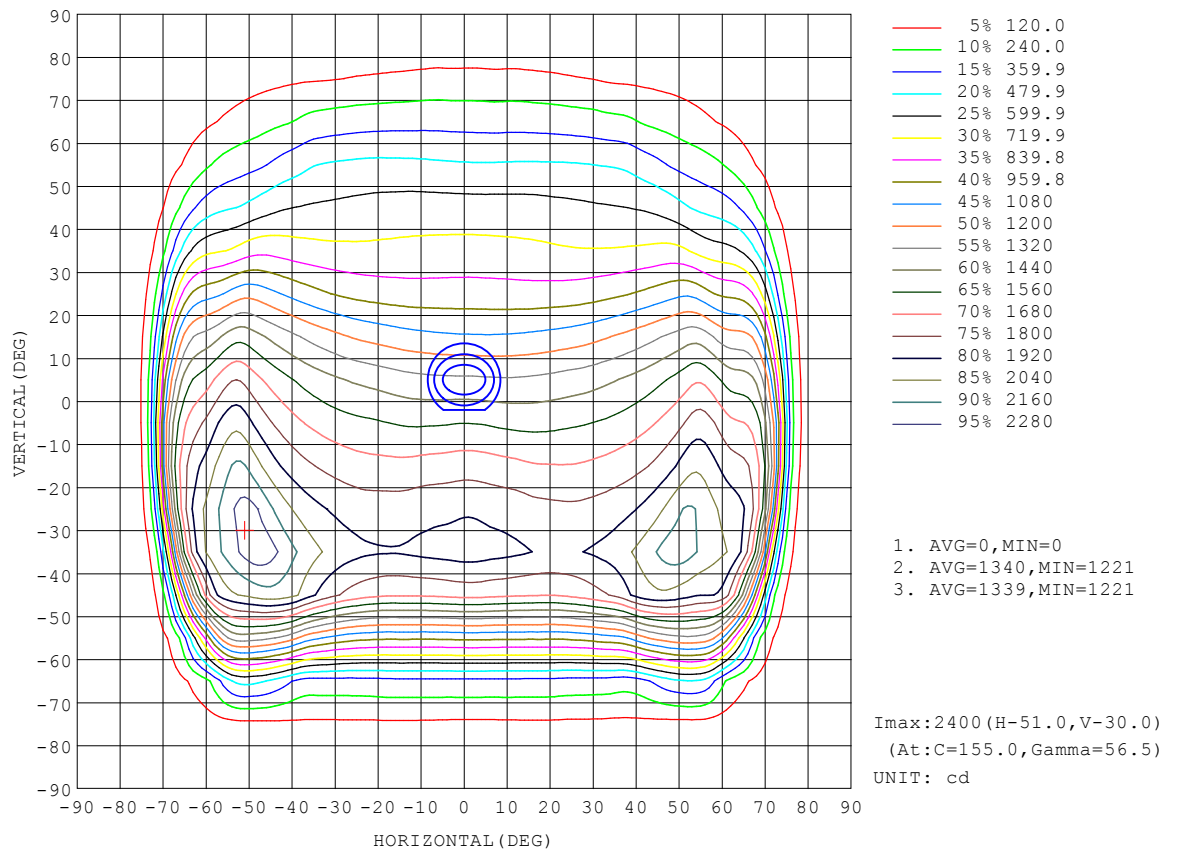
| γ   | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | γ       | Φ zone | Φ total | *lum,lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|--------|---------|-----------|
| 5   | 1449                  | 1523  | 1557  | 1526  | 1455  | 1376  | 1342  | 1371  | 0- 5    | 34.75  | 34.75   | 0.64,0.64 |
| 10  | 1437                  | 1578  | 1654  | 1587  | 1453  | 1300  | 1224  | 1287  | 5- 10   | 103.3  | 138.0   | 2.55,2.55 |
| 15  | 1441                  | 1634  | 1748  | 1648  | 1465  | 1229  | 1092  | 1210  | 10- 15  | 170.3  | 308.3   | 5.7,5.7   |
| 20  | 1459                  | 1685  | 1843  | 1705  | 1495  | 1138  | 960.0 | 1118  | 15- 20  | 235.3  | 543.6   | 10.1,10.1 |
| 25  | 1481                  | 1739  | 1905  | 1766  | 1518  | 1046  | 888.7 | 1024  | 20- 25  | 298.1  | 841.7   | 15.6,15.6 |
| 30  | 1503                  | 1792  | 1968  | 1824  | 1543  | 965.6 | 817.5 | 942.9 | 25- 30  | 358.9  | 1201    | 22.2,22.2 |
| 35  | 1534                  | 1840  | 1980  | 1877  | 1579  | 882.3 | 761.4 | 862.0 | 30- 35  | 417.1  | 1618    | 29.9,29.9 |
| 40  | 1575                  | 1894  | 1992  | 1937  | 1633  | 792.4 | 705.3 | 774.0 | 35- 40  | 471.7  | 2089    | 38.6,38.6 |
| 45  | 1634                  | 1944  | 1726  | 1989  | 1712  | 742.6 | 651.6 | 723.2 | 40- 45  | 519.1  | 2609    | 48.2,48.2 |
| 50  | 1717                  | 2000  | 1460  | 2058  | 1824  | 676.9 | 598.0 | 662.2 | 45- 50  | 552.8  | 3161    | 58.5,58.5 |
| 55  | 1772                  | 1842  | 989.5 | 1904  | 1916  | 612.7 | 489.8 | 600.8 | 50- 55  | 570.6  | 3732    | 69,69     |
| 60  | 1638                  | 1642  | 518.7 | 1699  | 1773  | 533.0 | 381.6 | 525.7 | 55- 60  | 539.2  | 4271    | 79,79     |
| 65  | 1587                  | 945.9 | 328.2 | 991.5 | 1643  | 404.6 | 317.6 | 396.2 | 60- 65  | 459.2  | 4730    | 87.5,87.5 |
| 70  | 1259                  | 447.1 | 137.7 | 479.3 | 1205  | 269.8 | 253.6 | 258.5 | 65- 70  | 366.4  | 5097    | 94.3,94.3 |
| 75  | 266.2                 | 160.8 | 95.93 | 178.4 | 179.7 | 159.8 | 159.4 | 148.5 | 70- 75  | 212.9  | 5310    | 98.2,98.2 |
| 80  | 72.04                 | 77.40 | 54.11 | 86.01 | 58.67 | 84.13 | 65.25 | 77.07 | 75- 80  | 68.87  | 5379    | 99.5,99.5 |
| 85  | 35.65                 | 19.88 | 0     | 21.48 | 23.53 | 17.94 | 0     | 16.18 | 80- 85  | 24.59  | 5403    | 99.9,99.9 |
| 90  | 20.64                 | 0     | 0     | 0     | 17.32 | 0     | 0     | 0     | 85- 90  | 3.772  | 5407    | 100,100   |
| 95  |                       |       |       |       |       |       |       |       | 90- 95  |        |         |           |
| 100 |                       |       |       |       |       |       |       |       | 95-100  |        |         |           |
| 105 |                       |       |       |       |       |       |       |       | 100-105 |        |         |           |
| 110 |                       |       |       |       |       |       |       |       | 105-110 |        |         |           |
| 115 |                       |       |       |       |       |       |       |       | 110-115 |        |         |           |
| 120 |                       |       |       |       |       |       |       |       | 115-120 |        |         |           |
| 125 |                       |       |       |       |       |       |       |       | 120-125 |        |         |           |
| 130 |                       |       |       |       |       |       |       |       | 125-130 |        |         |           |
| 135 |                       |       |       |       |       |       |       |       | 130-135 |        |         |           |
| 140 |                       |       |       |       |       |       |       |       | 135-140 |        |         |           |
| 145 |                       |       |       |       |       |       |       |       | 140-145 |        |         |           |
| 150 |                       |       |       |       |       |       |       |       | 145-150 |        |         |           |
| 155 |                       |       |       |       |       |       |       |       | 150-155 |        |         |           |
| 160 |                       |       |       |       |       |       |       |       | 155-160 |        |         |           |
| 165 |                       |       |       |       |       |       |       |       | 160-165 |        |         |           |
| 170 |                       |       |       |       |       |       |       |       | 165-170 |        |         |           |
| 175 |                       |       |       |       |       |       |       |       | 170-175 |        |         |           |
| 180 |                       |       |       |       |       |       |       |       | 175-180 |        |         |           |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       | UNIT:lm |        |         |           |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-08-24

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.370m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

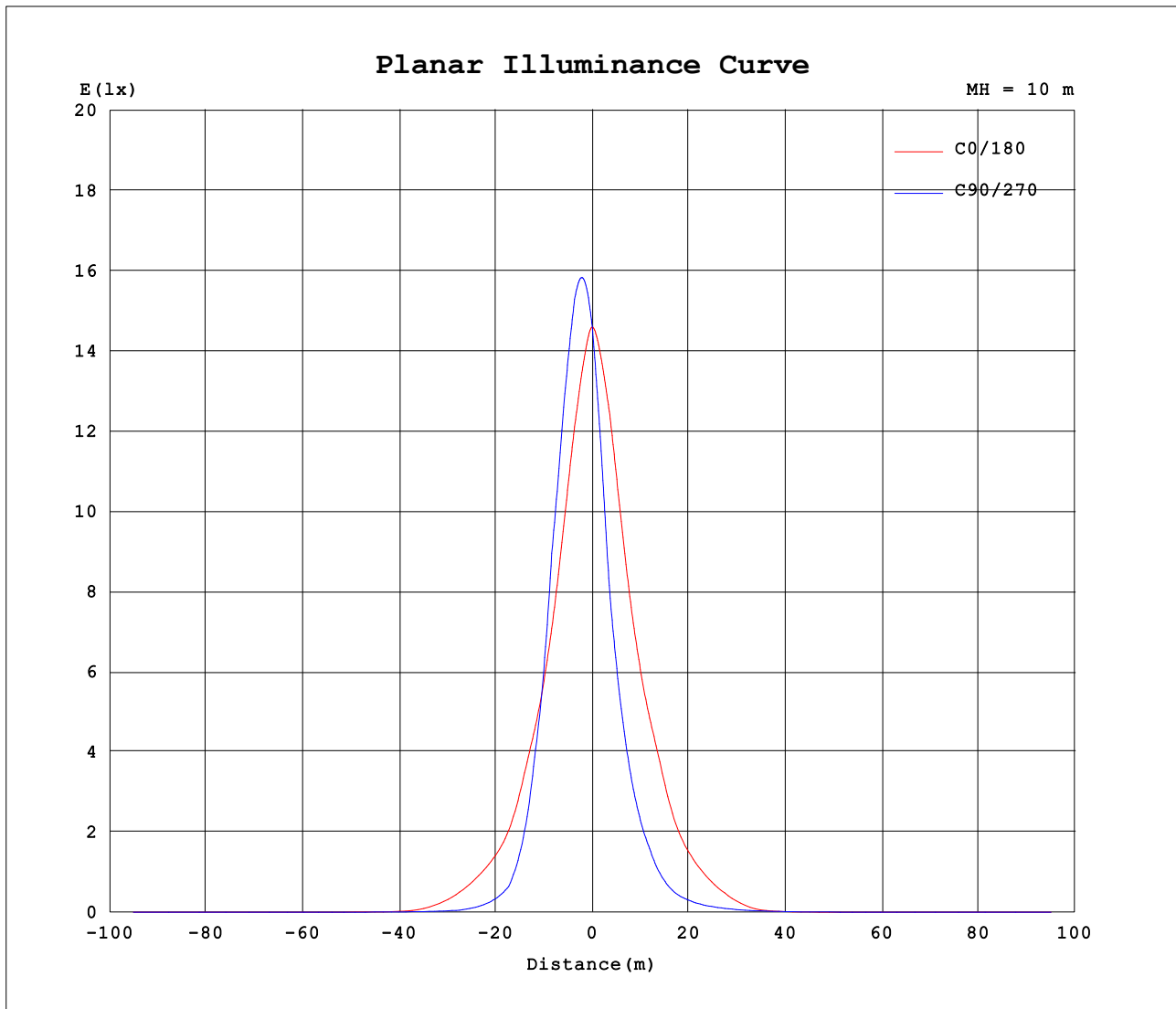
|   |                       |                  |
|---|-----------------------|------------------|
| Test:U:220.8V I:0.1708A P:36.00W PF:0.9545 Lamp Flux:5406.94x1 lm |                       |                  |
| NAME: OPCITYIII-35W-4070-6C1T2S-70                                | TYPE:LED              | WEIGHT:          |
| SPEC.:  | DIM.: 0.44X0.195X0.04 | SERIAL No.:1     |
| MFR.: LUXSUN  | SUR.:0.16X0.12        | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-08-24

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



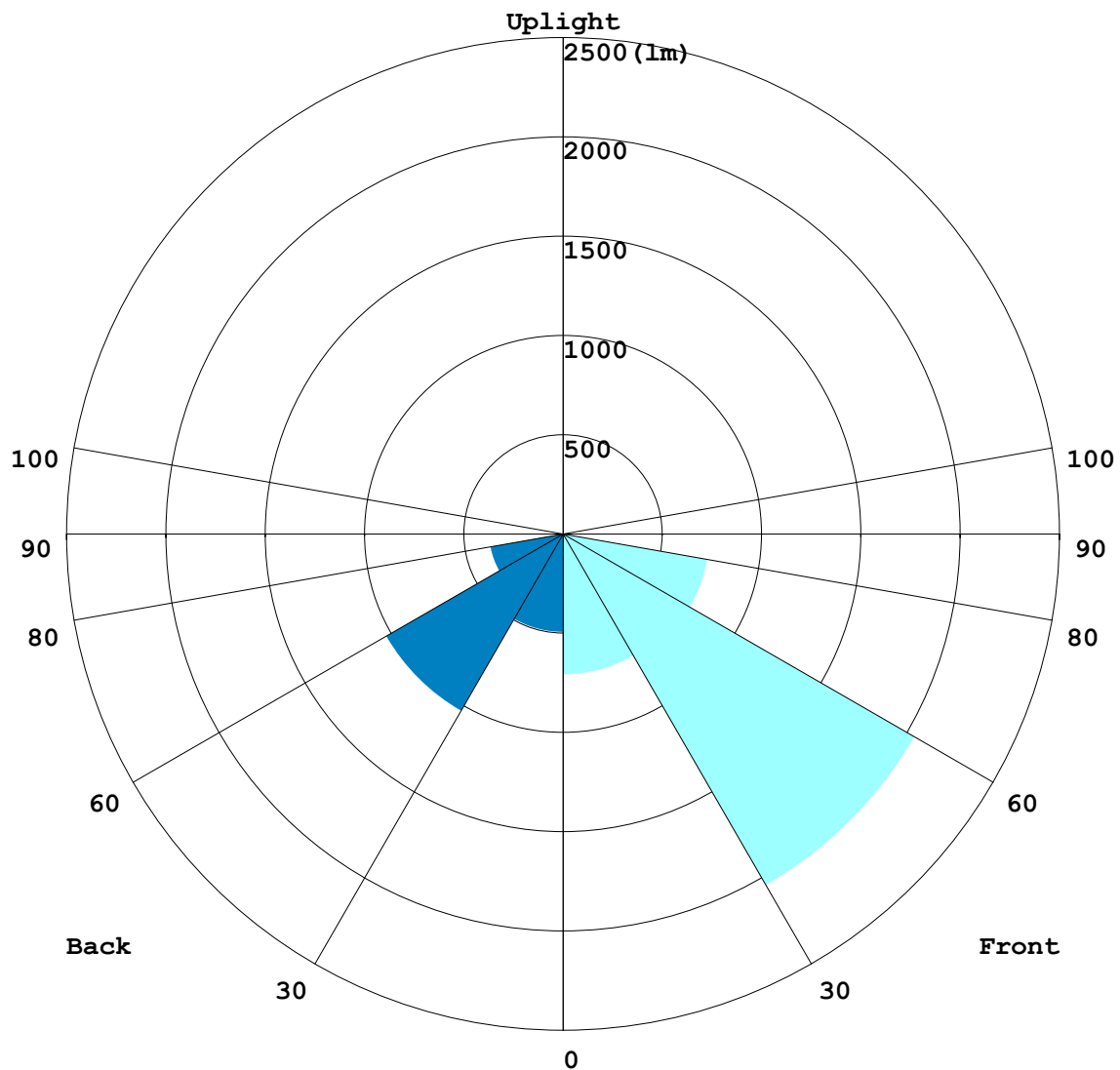
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-08-24

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 7.370m [K=1.0000]  
Remarks:

## LCS REPORT

|   |                       |                  |
|---|-----------------------|------------------|
| Test:U:220.8V I:0.1708A P:36.00W PF:0.9545 Lamp Flux:5406.94x1 lm |                       |                  |
| NAME: OPCITYIII-35W-4070-6C1T2S-70                                | TYPE:LED              | WEIGHT:          |
| SPEC.:  | DIM.: 0.44X0.195X0.04 | SERIAL No.:1     |
| MFR.: LUXSUN  | SUR.:0.16X0.12        | Shielding Angle: |

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-08-24

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

### BUG REPORT

|   |                       |                  |
|---|-----------------------|------------------|
| Test:U:220.8V I:0.1708A P:36.00W PF:0.9545 Lamp Flux:5406.94x1 lm |                       |                  |
| NAME: OPCITYIII-35W-4070-6C1T2S-70                                | TYPE:LED              | WEIGHT:          |
| SPEC.:  | DIM.: 0.44X0.195X0.04 | SERIAL No.:1     |
| MFR.: LUXSUN  | SUR.:0.16X0.12        | Shielding Angle: |

#### IESNA Luminaire Flux Distribution Table:

| Zone                         | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30)         | 707.63 | 13.1        |
| FM - Front-Medium(30-60)     | 2042.5 | 37.8        |
| FH - Front-High(60-80)       | 737.04 | 13.6        |
| FVH - Front-Very High(80-90) | 15.511 | 0.3         |
| Total Forward Light          | 3502.7 | 64.8        |

|                             |        |      |
|-----------------------------|--------|------|
| BL - Back-Low(0-30)         | 492.93 | 9.1  |
| BM - Back-Medium(30-60)     | 1028.1 | 19.0 |
| BH - Back-High(60-80)       | 370.4  | 6.9  |
| BVH - Back-Very High(80-90) | 12.848 | 0.2  |
| Total Back Light            | 1904.3 | 35.2 |

|                            |   |     |
|----------------------------|---|-----|
| UL - Uplight-Low(90-100)   | 0 | 0.0 |
| UH - Uplight-High(100-180) | 0 | 0.0 |
| Total Up Light             | 0 | 0.0 |

|                           |          |
|---------------------------|----------|
| BUG(Back,Up,Glare) Rating | B2-U0-G1 |
|---------------------------|----------|

| Zone        | Downward<br>Lumens | Upward<br>Lumens | Total<br>Lumens |
|-------------|--------------------|------------------|-----------------|
| House Side  | 1904.3             | 0                | 1904.3          |
| Street Side | 3502.7             | 0                | 3502.7          |

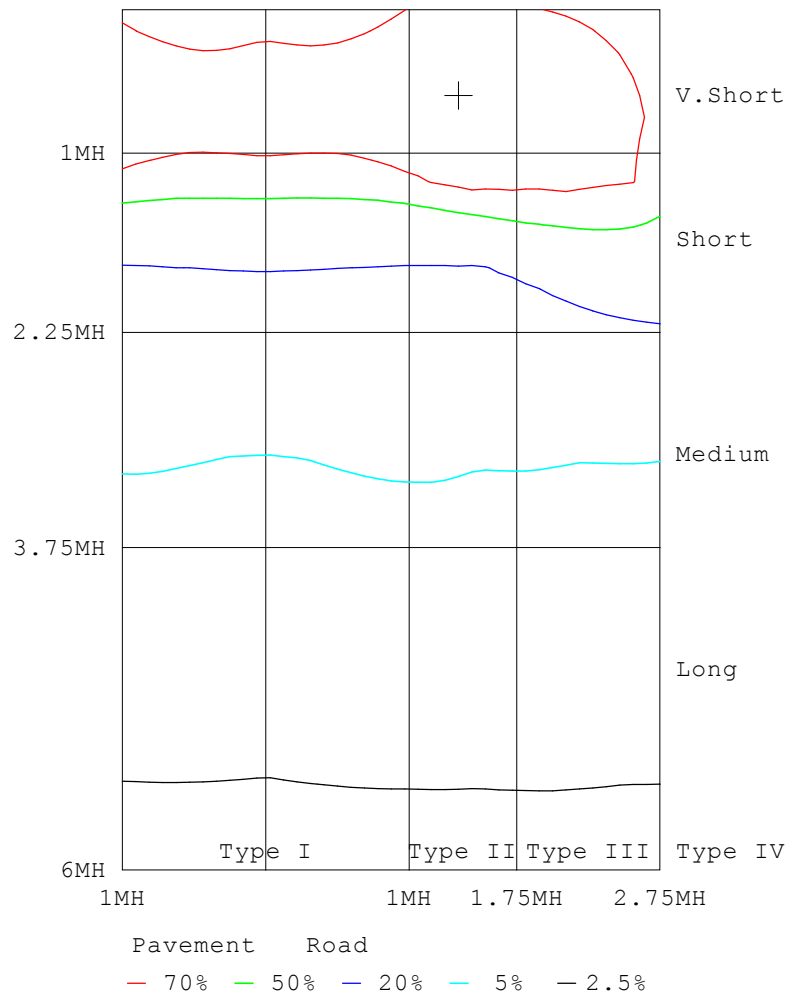
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-08-24

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

ROAD ISOCANDELA REPORT

|   |                       |                  |
|---|-----------------------|------------------|
| Test:U:220.8V I:0.1708A P:36.00W PF:0.9545 Lamp Flux:5406.94x1 lm |                       |                  |
| NAME: OPCITYIII-35W-4070-6C1T2S-70                                | TYPE:LED              | WEIGHT:          |
| SPEC.:  | DIM.: 0.44X0.195X0.04 | SERIAL No.:1     |
| MFR.: LUXSUN  | SUR.:0.16X0.12        | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-08-24

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.370m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.370m [K=1.0000]
Remarks:

```